

Serial No.: 10/778,010
Filing Date: February 11, 2004

Listing of Claims

1. **(Original)** Flow-through ion exchange medium comprising a monolithic stationary phase having interconnecting pores defined by pore walls, and fine ion exchange polymeric layering particles irreversibly bound directly or indirectly to the pore walls.
2. **(Original)** The ion exchange medium of Claim 1 in which the layering particles are covalently bound to said pore walls.
3. **(Original)** The ion exchange medium of Claim 1 in which the layering particles are bound by adsorption.
4. **(Original)** The ion exchange medium of Claim 1 in which said layering particles are bound to said pore walls through a dispersant.
5. **(Original)** The ion exchange medium of Claim 1 in which said layering particles are bound to said pore walls by electrostatic attachment.
6. **(Original)** The ion exchange medium of Claim 1 in which the stationary phase has pore sizes greater than 200 nm.
7. **(Withdrawn)** The ion exchange medium of Claim 1 disposed in a chromatography separation column.
8. **(Withdrawn)** The column of Claim 7 in fluid communication with a detector.
9. **(Withdrawn)** The column of Claim 7 in which said column is in fluid communication with a suppressor which is in fluid communication with a detector.
10. **(Original)** The ion exchange medium of Claim 1 in which said layering particles have a median diameter ranging from about 0.002 to 0.2 microns.
11. **(Withdrawn)** A method of chromatographically separating analytes in a liquid sample stream comprising flowing said liquid sample stream through the chromatographic separation column of Claim 7.

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12. **(Withdrawn)** A method for making an ion exchange medium comprising irreversibly binding fine ion exchange polymeric layering particles directly or indirectly to the pore walls of interconnecting pores in a monolithic stationary phase.
13. **(Withdrawn)** The method of Claim 12 in which said binding is covalent.
14. **(Withdrawn)** The method of Claim 12 in which said binding is by adsorption.
15. **(Withdrawn)** The method of Claim 12 in which said binding is through a dispersant.
16. **(Withdrawn)** The method of Claim 12 in which said binding is electrostatic.